

## Algebra 1

Name: \_\_\_\_\_

Mrs. Arot/Mrs. Britton

Section 7.3: Solving Systems by Elimination #1 Date: \_\_\_\_\_

Solve each system of equations. **\*\*SHOW ALL YOUR WORK\*\***

1. 
$$\begin{cases} x - y = 9 \\ x + y = 7 \end{cases}$$

2. 
$$\begin{cases} x + 3y = 7 \\ 2x - 3y = -4 \end{cases}$$

3. 
$$\begin{cases} 5x + 4y = 12 \\ 3x - 4y = 4 \end{cases}$$

4. 
$$\begin{cases} -4x - 2y = -12 \\ 4x + 8y = -24 \end{cases}$$

5. 
$$\begin{cases} 4x + 8y = 20 \\ -4x + 6y = -6 \end{cases}$$

6. 
$$\begin{cases} x - y = 11 \\ 2x + y = 19 \end{cases}$$

7. $\begin{cases} -6x + 5y = 1 \\ 6x + 4y = -10 \end{cases}$	8. $\begin{cases} -2x - 9y = -25 \\ -4x - 9y = -23 \end{cases}$
9. $\begin{cases} 8x + y = 16 \\ -3x + y = -6 \end{cases}$	10. $\begin{cases} -6x + 6y = 6 \\ -6x + 3y = -12 \end{cases}$

Explain how to solve this system by elimination method:

$$\begin{cases} 2x + 2y = 12 \\ -2x + y = -3 \end{cases}$$

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